

REMARKS

The applicant has amended claims 6, 9 and 12-13 as suggested by the Examiner in order to overcome the claim objections. Support for newly added claim 19 can be found in the known definition of "anatase". The applicant appreciates that the Examiner has stated that since the elected product claims are allowed, the non-elected process claims of Group II have now been rejoined with the elected claims.

Therefore, claims 1-4 & 6-19 are currently pending. Claims 1-4, 7-8, 10-11, & 18 are allowed. The applicant appreciates that the Examiner has allowed these claims.

Claims 6, 9, & 12-13 are objected to. These claims have been amended and therefore this objection should be withdrawn.

The Examiner has rejected claims 14-17 as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The applicant respectfully traverses this rejection. The applicant believes that claims 14-17 are definite. The applicant believes that the word "anatase" is a term of art well recognized by one of ordinary skill in the art. As the Examiner correctly stated, anatase is a crystal structure of titanium dioxide.

A search in the web using Google on November 30, 2007 resulted in about 868,000 hits for the word "anatase". See Appendix 1.

Clearly the word "anatase" is well known to one of ordinary skill in the art. The Examiner has correctly recognized and stated its definition. The following web cites show that anatase is well known to one of ordinary skill in the art to be a form of titanium dioxide

The Wikipedia encyclopedia found at <http://en.wikipedia.org/wiki/Anatase> defines anatase as follows:

"Anatase is one of the three mineral forms of titanium dioxide, the other two being brookite and rutile."

The encyclopedia Britannica found at <http://www.britannica.com/eb/article-9007380/anatase> defines anatase as follows:

Anatase is "one of three minerals composed of titanium dioxide (TiO₂), the other two being rutile and brookite. It is found as hard, brilliant crystals of tetragonal symmetry and various colours in veins in igneous and metamorphic rocks and commonly in placer deposits of detritus."

In view of the above amendment, applicant believes the pending application is in condition for allowance.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 03-2775, under Order No. 13111-00032-US from which the undersigned is authorized to draw.

Dated: February 11, 2008

Respectfully submitted,

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APPENDIX 1

Results 1 - 10 of about 868,000 for **anatase** [definition]. (0.05 seconds)

A. Anatase - Wikipedia, the free encyclopedia

Anatase is one of the three mineral forms of titanium dioxide, the other two being brookite and rutile. It is always found as small, isolated and sharply ...

en.wikipedia.org/wiki/Anatase - 22k - [Cached](#) - [Similar pages](#)

B. ANATASE (Titanium Oxide)

Anatase is a polymorph with two other minerals. The minerals rutile and brookite as well as **anatase** all have the same chemistry, TiO₂, but they have ...

mineral.galleries.com/minerals/oxides/anatase/anatase.htm - 16k - [Cached](#) - [Similar pages](#)

C. Anatase: Anatase mineral information and data.

Anatase is one of the four forms of Titanium Dioxide found in nature. The other three are Brookite, Rutile and TiO₂ II.

www.mindat.org/min-213.html - 45k - [Cached](#) - [Similar pages](#)

D. Anatase Mineral Data

Horn M, Schwerdtfeger C F, Meagher E P, Zeitschrift fur Kristallographie, 136 (1972) p.273-281, Refinement of the structure of **anatase** at several ...

webmineral.com/data/Anatase.shtml - 43k - [Cached](#) - [Similar pages](#)

E. anatase -- Britannica Online Encyclopedia

Britannica online encyclopedia article on **anatase**: one of three minerals composed of titanium dioxide (TiO₂), the other two being rutile and brookite.

www.britannica.com/eb/article-9007380/anatase - 52k - [Cached](#) - [Similar pages](#)

F. Anatase

These samples of **anatase** are displayed in the Smithsonian Museum of Natural History.

Anatase is an oxide mineral of titanium with the composition TiO₂. ...

hyperphysics.phy-astr.gsu.edu/hbase/minerals/anatase.html - 3k - [Cached](#) - [Similar pages](#)

G. Reaction Pathway to the Synthesis of Anatase via the Chemical ...

Anatase nanoparticles were obtained through a modified sol-gel route from titanium isopropoxide modified with acetic acid in order to control hydrolysis and ...

pubs.acs.org/cgi-bin/abstract.cgi/cmater/asap/abs/cm702286e.html - [Similar pages](#)

H. Anatase Online Home

Specializes in short run (25-100) hot forged fasteners for aircraft.

www.aircraftbolts.com/ - 6k - [Cached](#) - [Similar pages](#)

I. Anatase

Two main types of titanium dioxide are used industrially, rutile and **anatase**. Due to poor mechanical properties they are generally used for optical ...

www.azom.com/SearchResults.asp?MaterialKeyword=**Anatase** - 33k - [Cached](#) - [Similar pages](#)

[PDF](#)

J. Anatase pigments

File Format: PDF/Adobe Acrobat - [View as HTML](#)

High performance **anatase** pigments are manufactured by Huntsman Tioxide on ... The **anatase** crystal form exhibits key physical differences from rutile whilst ...

www.huntsman.com/pigments/Media/AnataseOct04.pdf - [Similar pages](#)